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19304B GSRS,	
Missile Number 1080.	
Round Number V-92, 6 December	6. PERFORMING ORG. REPORT NUME
7. AUTHOR(a)	8. CONTRACT OR GRANT NUMBER
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White Sands Missile Range, New Mexico	, -
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Q ABSTRACT (Continue on reverse side if recessory and ide	neity by block number)
Meteorological data gathered for the Number 1080, Round Number V-92 are pr	launching of the 19304B GSRS, Missile

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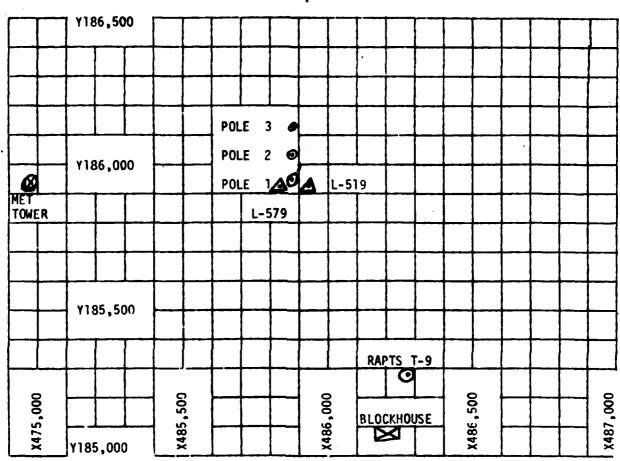
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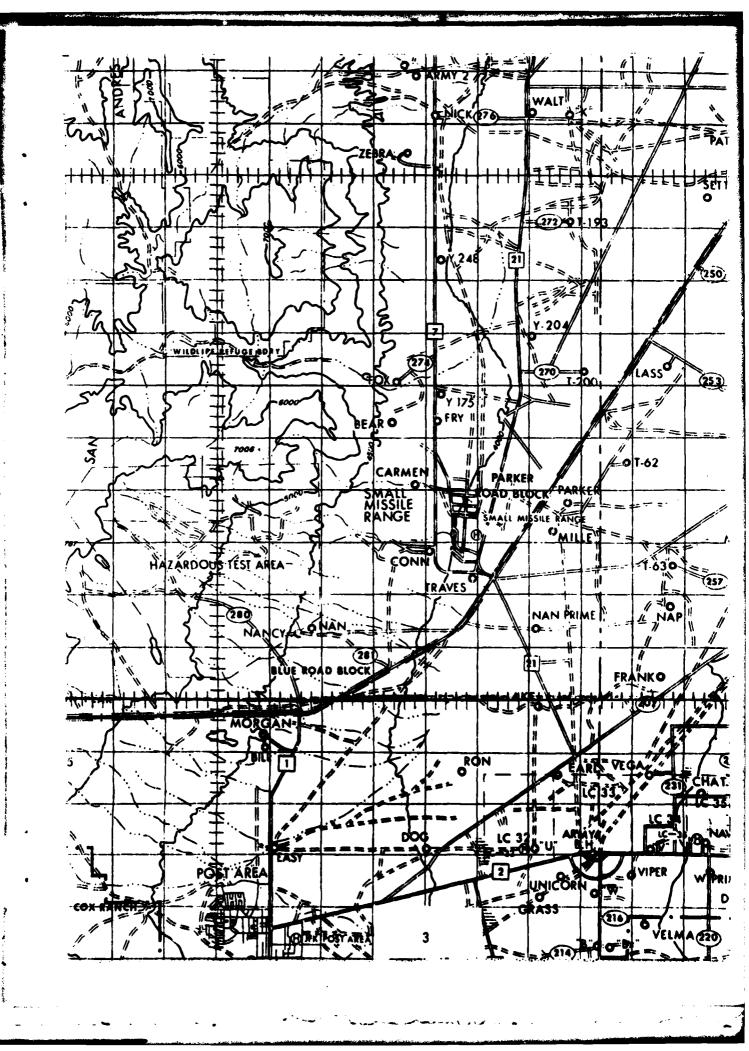
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INTRODUCTION

19304B GSRS , Missile M	lumber1080	, Round Number V-92
was launched from LC-33	_, White Sands Mi:	ssile Range (WSMR), New Mexico,
at 1516 MST on 06 December	1979 The	scheduled launch time was 1515 MST.
	DISCUSSION	
Meteorological data were recorded a	and reduced by th	e White Sands Meteorological
Team. Atmospheric Sciences Laborate		**
The data were obtained by the follow	•	
	, .	
1. Observations		
a. Surface		
(1) Standard surface	observations to	include pressure, temperature
(°C), relative humidity, dew point		•
and cloud cover were made at the		-
(2) Anemometer data w	vere provided from	m existing pole-mounted and
tower-mounted anemometers at LC-33.	. Monitor of win	d speed and direction from one
anemometer was also provided in the	launch control	room.
b. Upper Air		
(1) Low level wind da	ata were obtained	from RAPTS T-9 pibal observa-
tion at:		
	i	•
<u>S1</u>	ITE AND ALTITUDE	• • •
L	C-33 2Km •	•
N1	ick 2Km	
	·	
		ere collected at the following
Met Sites. Data were collected from	om surface to	78,000 feet in
500-feet increments.		
	SITE AND TIME	
	SMR 1445 MST	



- 1. MET TOWER 4 Bendix Model T-20 Anemometers at 12 ft, 62 ft, 102 ft, and 202 ft with E/A recorders.
- 2. POLE ANEMOMETER Bendix Model T-120 with E/A recorders.
 - (a) Pole #1 38.7 ft.
 - (b) Pole #2 53.0 ft.
 - (c) Pole #3 83.6 ft.
- 3. RAPTS T-9 Radar Automatic Pilot-Balloon Tracking System T-9 Radar.



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TABLE 1. Surface Observations taken at 1516 MST, 06 December 1979, at LC-33, 19304B GSRS, Missile Number 1080, Round Number V-92.

ELEVATION	3977.30	FT/MSL
PRESSURE	874.9	MBS
TEMPERATURE	15.0	°c
RELATIVE HUMIDITY	22	5.3
DEW POINT	-6.7	°c
DENSITY	1054	GM/M ³
WIND SPEED	01	ктѕ
WIND DIRECTION	144	DEGREES
CLOUD COVER	4	Ci

X485,874 Y185,958 H4018.74	8.90 4	·	POLE #2 X485,874 Y186,012 H4033.55 53.0 ft	4.93 2.00 7		POLE # X485,87 Y186,110 H4063.93 83.6 ft	7.29 6.06 2	
POLE #1 X485,874.29 Y185,958.90 H4018.74 38.7 ft. AGL T-TIME DIR SPEED SEC DEG KTS		T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DI R DEG	SPEED KTS	
-30	225	04	-30	246	02	-30	225	01
-20	225	04	-20	242	03	-20	206	02
-10 [.]	225	03	-10	244	02	-10	228	03
0.0	225	03	0.0	244	02	0.0	228	02
+10	225	02	+10	258	02	+10	227	02

TABLE 3 LC-33 METEOROLOGICAL TOWER ANEMOMETER MEASURED WINDS (202 FT TOWER)

LEVEL #1, 1 X484,982.64		73, H3983.00 (base)	LEVEL #2, 62 X484.982.64		3, H3983.00 (base)
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30		CALM	-30	MISG	01
-20		CALM	-20	MISG	02
-10		CALM	-10	MISG	01
0.0		CALM	0.0	MISG	01
+10		CALM	+10		CALM

LEVEL #3, 10 X484,982.64	02 FEET 1185,057.73	, H3983 00 (base)	LEVEL #4, 20 X484,982, Y1		3983.00 (base)
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30		CALM	-30		CALM
-20		CALM	-20		CALM
-10		CALM	-10		CALM
0.0		CALM	0.0		CALM
+10		CALM	+10		CALM

PILOT BALLOON MEASURED WIND DATA

TABLE	4									
RELEASED	FROM LC-3	33	·	DATE	06 Decem	ber 1979		~~~ -~~~.	TIME 1516	MST
TRACKER	COO	RDINATE	S (W	ISTM) X=	486,037.2	<u>4</u>	<u> </u>	82,350.1	.6 H= 397	7.30
					O TRUE NORT	Н				
	ARE METERS		_	-						
HEIGHT AGL	DIRECTION DEGREES	SPEED KTS		HEIGHT AGL	DIRECTION DEGREES	SPEED KTS		HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
SFC	144	01								
90	186	02]							
150	163	02]							
210	182	04]							
270	148	05	}			·				
330	170	04]							
390	MISG	MISG	}							
500	231	02								
650	293	03								
800	294	_07						-		
950	296	05								
1150	305	07								
1350	300	14								
1550	304	21								
1750	298	25								
2000	310	22								
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PILOT BALLOON MEASURED WIND DATA

TABLE	5									
RELEASED	FROM NIC	Κ		DATE	06 Decemb	<u>er 1979</u>		 	TIMF 1516	MST
TRACKER	C00	RDINATE	s (w	STM) X=	470,734.56	<u> </u>	2	55,775.64	= 41	26.57
NOTE: W	IND DIRECTI	ONS ARE	REF	ERENCED T	O TRUE NORTH	l				
HEIGHTS .	ARE METERS	AGL_XX_	OR	FEET AGL_	•					
HEIGHT AGL	DIRECTION DEGREES	SPEED KTS		HEIGHT AGL	DIRECTION DEGREES	SPEED KTS		HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
SFC	CALM	CALM		, ruc	DEGREES	1.13		Muc	DEGREES	I I
90	MISG	MISG								
150	192	02			<u> </u>					
210	220	02		······································			'	·········		
270	242	04								
330	255	05	İ							
390	MISG	MISG								
500	285	06								
650	272	11								
800	256	12								
950	273	10								
1150	290	15								
1350	MISG	MISG								
1550	MISG	MISG								
1750	MISG	MISG								
2000	302	27								
									=======================================	
			1				I	· · · · · · · · · · · · · · · · · · ·		

STATION ALTITUDE 3989.00 FEET MSL 6 DEC: 79 1445 HKS MSI ASCELSION NO. 507

SIGNIFICANT LEVEL DATA 3490020507 WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

KHITE SANUS TABLE 6

PPESSURE	GEON	TEMP	TEMPERATURE	REL . HUM.
MILLIBARS	ALTITUDE MSL FELT	AIK UEGKEES	DEWPOINT CENTIGRADE	PERCENT
874.4	3069.0	14.0	-5.7	25.0
8/1.4	4034.2	10.9	-8-5	
855.0	4771.0	12.4	-10.5	19.0
762.0	7734.5	†	-13.9	25.0
742.6	8123.7	4.1	14.0	24.0
733.0	8772.7	6.5	-14.5	21.0
Ģ	COC	6.2	-14.5	21.0
a)	13-03-3	٥.	-17.1	22.0
679.0	15n46.4	-2.3	-21.1	22.0
ķ	16232.4	0.5-	-27.4	0.41
ė.	13722.7	-10.6	-31.5	
ċ	24319.1	-24.5	4.24-	17.0
3	28038.2	-34.7	-50.5	10.0
ċ	30963.6	-42.5		
ė	34923.8	•		
233.8	35501.9	-55.6		
÷	38206.5	-56.4		
o	39502.8	-56.2		
194.2	40220.7	-55.0		
167.2	43355.8	-57.4		
58.6	44455.8	-57.4		
59.0	45610.3	-60.0		
46.4	46109.7	-60.5		
‡	49612.8	-61.4		
=	52046.7	-56.3		
c.	53848.7	-64.7		
95.4	5527.2	-63.8		
.	57260.1	-57.4		
5•3	60151.8	-66.7		
•	60787.2	-67.9		
50.0	67743.1	-63.3		
.	0151.	-64.1		
ŧ	75398.8	-57.4		
. 0.00	8272.	-55.4		

STATION ALTITUDE 3989-00 FELT MSL 6 ULC 79 1445 HKS MSI ASCENS-UL HO. 507

UPPER AIR DATA 340020507 NATTE SANUS TABLE 7

GEODETIC COORDINATES 32.40043 LAT CEG 106.37033 LON GEG

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25.0 10.50.0 660.7 co.0 co.0 co.0 co.0 co.0 co.0 co.0 co.0	7 X X X X
1059-2 050-3 280-0 1-4 1010-2 1010-2 280-0 1-6 1010-2 280	ALES LENTISONALIE
1015-3 559.9 280.0 1.4 1010 1015-3 559.4 280.0 1.4 1010 1015-3 559.4 280.0 1.4 1010 1015-3 559.4 280.0 1.4 100 1015-3 559.4 280.0 1.4 100 1015-3 559.4 280.0 1.4 100 1015-3 559.4 280.0 1.4 100 1015-3 559.4 280.0 1.4 100 1015-3 559.4 280.0 1.4 100 1015-3 559.4 280.0 1.4 100 1015-3 559.4 280.0 1.4 100 1015-3 559.4 280.0 1.4 100 1015-3 559.4 280.0 1.4 100 1015-3 559.4 280.0 1.4 100 1015-3 559.4 280.0 1.4 100 1015-3 559.4 280.0 1.4 100 1015-3 559.4 280.0 1.4 100 1015-3 559.4 280.0 1.4 100 1015-3 559.4 280.0 1.4 100 1015-3 559.4 280.0 1.4 100 1015-3 559.4 31.0 1.4 1.4 1.0 1.0 1.4 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	
1015.3 555.4 280.0 8.9 1015.3 555.4 280.0 8.3 1015.3 555.4 280.0 8.3 1015.3 555.4 280.0 8.3 1015.3 555.4 280.0 8.3 1015.3 555.4 280.0 8.3 1015.3 555.4 280.0 7.1 1015.3 555.4 280.0 7.1 1015.3 555.4 280.0 7.1 1015.3 555.4 280.0 7.1 1015.3 555.4 280.0 7.1 1015.3 555.4	; ~
1015.3 550.4 280.0 4.3 1.000 5.5 1001.5 654.9 280.0 4.3 1.000 5.6 961.5 650.1 284.2 13.3 1.000 6.6 942.4 651.4 284.1 13.3 1.000 6.7 961.5 650.1 284.2 13.3 1.000 6.8 30.4 651.4 30.5 28.2 1.000 6.8 30.4 651.5 30.5 28.2 1.000 6.8 30.6 650.6 30.6 28.2 1.000 6.8 30.6 650.6 30.6 28.2 1.000 7.5 7 647.7 317.9 28.1 1.000 7.5 647.7 647.7 317.9 28.1 1.000 7.5 647.7 642.7 317.9 28.2 1.000 7.5 7 647.7 284.8 28.1 1.000 7.5 7 647.7 284.8 28.1 1.000 7.5 67.8 658.6 284.1 1.000 7.5 67.8 658.6 284.1 1.000 7.5 67.8 658.6 284.1 1.000 7.5 67.8 658.6 284.1 1.000 7.5 67.8 658.6 284.1 1.000 7.5 67.8 658.6 284.1 1.000 7.5 67.8 658.6 284.1 1.000 7.5 67.8 658.6 284.1 1.000 7.5 67.8 658.6 284.1 1.000 7.5 67.8 658.6 284.1 1.000 7.5 67.8 658.6 284.1 1.000 7.5 67.8 658.6 284.1 1.000 7.5 67.8 658.6 284.1 1.000 7.5 67.8 658.6 344.0 1.2 2.1 1.000 7.5 67.8 658.7 344.0 1.2 2.1 1.000 7.5 67.8 658.7 344.0 1.2 2.1 1.000 7.5 67.8 658.7 344.0 1.2 2.1 1.000 7.5 67.8 658.7 344.0 1.2 2.1 1.000 7.5 67.8 658.7 344.0 1.2 2.1 1.000 7.5 67.8 67.0 344.0 1.2 2.1 1.000 7.5 67.8 67.0 344.0 1.2 2.1 1.000 7.5 67.8 67.0 344.0 1.2 2.1 1.000 7.5 67.8 67.0 344.0 1.2 2.1 1.000 7.5 67.1 342.6 1.000 7.5 67.1 342.6 1.000 7.5 67.1 342.6 1.000 7.5 67.1 342.6 1.000 7.5 67.1 342.6 1.000 7.5 67.1 342.6 1.000 7.5 67.1 342.6 1.000 7.5 67.1 342.6 1.000 7.5 67.1 342.6 1.000 7.5 67.1 342.6 1.000 7.5 67.1 342.6 1.000 7.5 67.1 342.6 1.000 7.5 67.1 342.6 1.000 7.5 67.1 342.6 1.000 7.5 67.1 342.6 1.000 7.5 67.1 342.6 1.000 7.5 67.1 344.6 1.000 7.5 67.1 344.6 1.000 7.5 67.1 344.6 1.000 7.5 67.1 344.6 1.000 7.5 67.1 346.6 1	1.8 -10.8 1
1001.5 654.9 280.0 7.1 1.000 15. 961.5 650.1 294.2 13.3 1.000 15. 961.5 650.1 294.2 13.3 1.000 16. 961.5 650.1 294.2 13.3 1.000 16. 961.5 650.1 294.2 18.2 1.000 17. 961.5 650.1 294.2 19.2 1.000 18. 961.6 650.6 302.4 21.0 1.000 18. 962.6 650.6 312.7 24.2 1.000 18. 963.6 650.6 312.7 24.2 1.000 18. 963.6 650.6 312.9 24.4 1.000 18. 963.6 650.6 312.9 24.4 1.000 18. 963.6 650.6 312.9 21.6 1.000 18. 963.6 650.6 312.9 21.6 1.000 18. 963.6 650.6 312.9 21.6 1.000 18. 963.6 650.6 294.6 22.4 1.000 18. 963.6 650.6 284.1 20.0 1.000 18. 963.6 650.6 284.1 1.000 18. 963.6 650.6 284.1 1.000 18. 963.6 650.6 284.1 1.000 18. 963.6 650.6 312.9 11.0 1.000 18. 963.6 650.6 312.9 11.2 1.000 18. 963.6 650.6 312.9 11.2 1.000 18. 963.6 650.6 312.9 11.0 1.000 18. 963.6 650.6 312.9 11.0 1.000 18. 963.6 650.6 312.9 11.2 1.000 18. 963.6 650.6 312.9 11.0 1.000 18. 963.6 650.6 312.9 11.0 1.000 18. 963.6 650.6 312.9 11.0 1.000 18. 963.6 650.6 312.9 11.0 1.000 18. 963.7 3 652.4 3 652.9 11.0 11.000 18. 963.8 650.8 320.9 11.0 11.0 1.000 18. 963.9 650.7 3 342.9 11.0 11.0 1.000 18. 963.9 650.9 344.0 11.0 11.0 1.000 18. 963.9 960.9 344.0 11.0 11.0 1.000 18. 963.9 960.9 344.0 11.0 11.0 1.000 18. 963.9 960.9 344.0 11.0 11.0 1.000 18. 963.9 960.9 344.0 11.0 11.0 1.000	0.4 -11.2 2
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961.5 650.1 294.2 113.3 1.000 961.5 650.1 294.2 113.3 1.000 977.7 6.19.6 3.02.2 19.9 1.000 972.4 651.6 3.02.2 19.9 1.000 972.4 651.6 3.02.2 19.9 1.000 972.4 651.6 3.02.2 19.9 1.000 972.4 651.6 3.02.2 19.9 1.000 972.4 651.6 3.02.2 19.9 1.000 972.4 651.6 3.02.2 19.9 1.000 972.4 651.6 3.02.2 19.9 1.000 972.4 647.7 3.17.9 22.4 1.000 972.7 647.7 3.17.9 22.4 1.000 972.7 647.7 3.17.9 22.4 1.000 972.7 642.7 294.8 21.0 1.000 972.7 642.7 294.8 21.0 1.000 972.7 642.7 294.8 21.0 1.000 972.7 642.7 294.8 1.000 972.7 642.7 294.8 1.000 972.7 1	-12.3
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927.7 649.6 302.2 19.2 1.000 927.7 649.6 302.2 19.2 1.000 937.4 651.6 301.7 24.4 1.000 937.4 651.6 301.7 24.4 1.000 937.4 651.6 301.7 24.2 1.000 937.4 651.6 301.7 24.2 1.000 937.8 643.7 313.9 21.6 1.000 937.9 643.9 20.8 1.000 937.0 643.9 298.9 20.9 1.000 945.1 643.9 284.6 20.9 1.000 945.2 647.0 284.6 20.9 1.000 945.3 633.9 298.2 18.4 1.000 945.5 647.0 284.2 18.4 1.000 945.5 647.0 284.1 12.4 1.000 945.5 657.0 284.2 18.4 1.000 945.5 657.1 342.8 11.0 12.2 1.000 945.1 342.8 14.1 12.2 1.000 945.2 624.7 342.8 11.00 945.3 620.2 344.6 13.5 11.000 945.3 620.2 344.6 13.5 11.000	-13.6
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	39.8

	UPPER AIR CATA	
IATION ALTITUDE 3989.00 FEET MSL	3400020507	GEODETIC COORDI
6 UEC - 79 1445 HKS MST	WHITE SANDS	32.40043 LA
Sceriston No. 507	TABLE 7 (CONT)	106.37033 L0

SIATION ALTITUDE 6 DEC: 79 ASCERSION NO. SI	UDE 39 58/	89.00 FEET A 1445 MKS MST	ET MSL MST	-	UPPER AIR CAT 3400020507 WHITE SANDS TABLE 7 (CON	SONTA ISO7 INUS (CONT)		6E0DETIC 32.4 106.3	ETIC COORDINATES 32.40043 LAT DEG 06.37033 LON CEG	
GEONE THIC ALIITUNE MSL FEET	PHESSUME WILLIBAMS	TEMP AIR Degrees	TEMPERATURE R DEWPOINT EES CENTIGRADE	REL.HUM. PERCENT	DENSIIY GM/CUBIC METER	SPEED OF SOUND KNUTS	WIND DATA DIRECTION S DEGREES(TN) K	TA SPEED KNOTS	INDEX OF HEFRACTION	
23560.0	413.5	-22.4	-40.8	16.9	574.5	616.9	351.6	12.7	1.000129	
24003-3	¥02.2	-23.7	-41.8	16.9	565.8	615.4	1.4	11.5	1.000127	
24500.0	7966	-55.0	-42.0	17.0	557.1	613.7	18.9	10.9	1.000125	
22000.0	9:93¢	-50.4	P43.9	17.2	543.4	612.0	51.4	11.1	.00012	
25500.0	300·4	-27.1	-45.0	17.3	539.9	610.3	33.1	11.9	1.000121	
25000.6	372.4	-29.1	-46.1	17.5	5-11-5	60B.b	34.6	12.7	1.000119	
26500.0	ついかいつ	-30.5	-47.2	17.6	523.2		9.50	13.6	•	
27000.0	356.8	-31-9	り・シナー	17.7	515.1		32.9	14.4	1.000115	
27530.0	つかかつ	-33.2	たいのか	17.9	507.2	663.5	3000	15.2	.00011	
29800.0	248.0	-34.6	-50.4	18-0	2.654	001.7	27.8	16.0	1.000112	
28500.n	234.5	-35.9	-53.0	15.2**	491-1		24.0	17.0		
29000.F	327.2	-37.2	-55.9	12.14*	483.0		19.4	18.2	•	
23200.0		-38.4	-53.5	4*0°6	4/2.0	596.8	15.4	19.5		
30000		-39.7	•	5.9**	457.2	595.2	12.3	20.9	1.000104	
30500.0		0.14-	9.69-	2.9**	459.5	593.6	11.3	22.1	1.000102	
51000.0	C-667	7 2 7 7			452.0	591.9		N. 10.	1.000101	
5.000TC	•				4:4:0 2 41:0	0.000	- K	N	1.00009	
32500-0		-46.7			0	5.000 5.000	7 3	27.0	1.00009	
33000·n		-48.1			422.8	504.4	3.6	28.3	1.000094	
33500.0	4002	9.65-			415.9	582.5	8.8	29.6	1.00003	
340U3.A	Z60.5	-51.0			4119.1	560.0	9.6	31.0	1.000091	
ひ・ロのいけつ		-52·			405.4	578.7	10.1	32.4	1.000090	
350,00.0		-53.9			395.7	576.9	10.4	33.7	1.000068	
32000-0		1.04 ° C			388.4	575.5	10.6	35.1	1.000087	
0.0000) • CC =			387.5	574.5	11.7	35.7	1.000085	
30500	60102	0.00			3/1.6	5-4-5	12.7	36.2	1.000083	
2/40000	221.1	0.000			0 0 0 0 F	10 4 CS	10.7	20.02	180000-1	
38000.0	215.9	-500				573.5	15.5		1.0000.1	
38500°C	210.8	-56.4			332.6		16.2	200	1.00001	
390000	400×	-50.3			330.7		16.8	41.0	1.000074	
59500.0	201.U	-56.2			322.8		17.4	42.2	•	
40000	196.3	-55.4			314.0	574.8	18.1	43.1	1.000070	
40200.0	191.6	-55.5			306.3		18.9	43.8	•	
41000-3	101.1	-55.6			599.6	574.	19•6	44.5	•	
41500-0	132.	0.00			293-1	574	80°.	ů.	1.000065	
200024		200			0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 :		:.	η,	1.000064	
43589.0	17001	1990			2000	573.1	0.47	41.6	1.000062	
22	-	4			•	0.7/0	0.63	7.40	1.000061	

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

T MSL	1445 HKS NST	
PEE	IXS	
89.00	1445	
36		200
LIIV.	JEC - 79	0
N N	54 .:	NOT!
TIC	7	2

GEODETIC COORDINATES 32.40043 LAT DEG 106.37033 LON DEG	INDEX OF REFRACTION		1.00000	1.000058	1.000057		1.000055	1.000054			1.000050	1.000049	1.000048	1.000047	1.000045	1.000045	1.000044	1.000043		1.000041	1.000040	1.000039	1.000038	1.000037	1.000036	1.000035		1 • 000034			1.000031	1.000031	1.000030	1.000029			1.000027	1.000026	1.000026	1.000025	1.000024	1.000024
GEODETI 32• 106•	SPEED KNOTS		000	35.7	35.8	36.1	36.6	36.8	36.7	36.6	36.4	33.2	28.9	54.6	20.5	19.0	17.6	16.4	15.2	14.0	12.8	11.3	# 60	5.5	2.8	2.0	 	*·I		1.2	3	11.5	ė	15.3	13.9	13.0	18.6	26.4	23.7	21.1	16.4	11.2
	MIND DATA DIRECTION SI DEGREES(IN) K	:	7.57	55.6	13.4	14.3	10.3	7.7	0.	5.0	0.7	5.3	3.0	12.5	797	15.2	11.1	9 •¢	2.5	359.6	356.5	355.5	352.1	3.648	342.6	328.0	5000	2002	257.1	205-1	155.3	143.6	141.2	122.4	104.5	99	27.2	12.2	74.8	17.9	21.7	28.6
JATA 57 55 50NT)	SPEED OF SUUND KNOTS		272.6	572.2	572.1		569.1	568.3	568.0	567.8	567.6	567.5	567.3	567.1	566.9												_								3)	נצ	2,	J		ហ	n	21
UPPER AIR DATA 3400020507 SHITE SANDS	DENSITY S		1.902	261.8	255.7	250.9	246.2	241.0	255.4	223.9	224.5	219.2	214.1	209.0	294.1	199.9	196.0	192.2	186.4	184.8	179.9	175-1	179.3	165.8	161.5	157.3	153.7	150.5	147.5	さ・サナー	141.2	137.6	134.1	130.7	127.4	124.1	121-3	113.7	115.6	112.6	109.6	106.8
_	REL.HUM. PERCENT																																									
989.00 PEET MSL 1445 HKS MST	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	:	12/51	-57.4	-57.5	-56.6	-56·R	**09-	9-09-	7-09-1	6.09-	-61.0	-61-1	-61.2	-61.4	-62.2	163.5	-64.3	++5++	1.66.4	0.99-	-65.5	-65.0	9-49-	5-49-	-63.9	5-19-	-65.2	-66.1	-66.9	-67.3	-67.2	-67.1	-67.0	6.99-	-66.7	-67.2	-67.9	-67.0	-67.2	-69.9	-65.5
UDE 3	PRESSURE MILLIBAKS :	•	199.0	152.1	154.3	154.5	150.8	147.2	143.6	7.041	130.8	133.5	130.5	127.1	124.1	121-1	110.1	115.2	112.4	1.501	107.0	104.0	101.8	99.3	2.06	G•#6	92.1	89.9	87.1	35.5	30.00	81.5	79.3	77.5	75.4	73.0	71.1	70.0	68.2	60.0	5.59	63.3
STATION ALTITUDE 6 DEC+ 79 ASCENSION (10+ 5)	GEOMETHIC ALITUUE NSL FELT		0.00504	44000.0	64500.3	45000-0	45560.0	46000-0	46500.0	47033.0	47569-0	40000	44500.0	49000.0	0.00564	50000	0• 00€0¢	91600.0	31509.C	52000.0	52500.0	53000.0	\$3500·0	54000-0	57509.0	22000-0	55500.0	0 · 1009C	20500.0	2.00076	57509-0	28.20.0	56500.0	3.00 ive	59509.6	6 0000	60500.0	61000.0	61500.0	5.2000.C	02550	6-00059

STATION ALTITUDE 6 DEC+ 79 ASCENSION NO+ 50	TUDE • 50	J989.NO FEET HSL 1445 HRS MST	-	UPPER AIN LATA 3400020507 WHITE SANUS TABLE 7 (CONT	LATA S97 NUS		6E0DET1 32. . 106.	GEODETIC COORDINATE 32.40043 LAT DE 106.37033 LON DE
GEONETHIC ALTITUNE MSE FEET	PRESSURE MILLIBAKS	TEMPERATURE AIK UENPOINT DEGREES CENTIGRADE	REL . HUM. PERCENT	DENSITY S GM/CUBIC METER	SPEED OF SUUND RNCTS	WIND DATA DIRECTION SI DEGREES(IN) K	SPEED KNOTS	INDEX OF REFRACTION
63590-0	61.8	-56.5		194.0	560.5	34.0	8	1.000023
0+000+0	2.09	-65-8		101.2	5,00.9	23.7	9.5	1.000023
64500.0	58.8	-65°		9.06	561.4	15.5	10.4	1.000022
65000	57.3	-65.2		96.0	561.8	11.5	9.5	1.000021
05500·0	55.4	8.49-		03.5	502.3	5.9	8.7	1.000021
0.0039a	54.0	-F4.J		91.0	562.8	1.6	7.4	1.000020
0.800°C	53.2	-54 • 1		86.1	503.2	354.3	5.8	1.000020
67000.0	51.9	-63.8		65.3	563.7	341.6	4.3	1.000019
07500.0	20.6	-63.5		64.1	564.1	316.1	4.6	1.000019
0.0000	#•6#	-63.u		82.0	554.5	287∙6	J. F	1.000018
64300.4	7.84	-63.6		80.1	504.0	258.7	4.2	1.000018
6-90069	47.0	-63.7		78.5	563.8	256.4	0.9	1.000017
0-83669	40.4	-53.9		70.3	563.6	225.1	8.2	1.00001
700000	/・サホ	-64.3		74.5	563.3	215.8	8.1	1.000017
70500.0	43.1	-63.7		72.6	563.9	504.1	7.5	1.000016
71000-0	45.6	-63.0		70.6	5.4.7	195.2	7.4	1.000016
71500.0	41.0	-62.4		63.7	565.6	190.9	9.4	1.000015
72000.0	40.0	-61.7		6009	566.4	189•0	9.4	1.000015
72500.0	39.6	-61.1		1.56	567.3	194.0	11.9	1.00001
7.5000.0	7.00	-60.5		63.3	5-6-5	205.7	15.1	1.00001
7.5590.0	37.1	-59.8		61.6	5.9.0	210.4	17.4	1.000014
0.000.1	30.0	-59.2		90.09	5.6.6	214.1	17.3	1.00001
74560.0	35.4	-58.5		533.3	570.7	217.7	17.4	1.000013
75000-1	35.1	-57.9		2000	571.6	227.1	13.5	1.000013
75500.0	ときなり	-57.3		55.3	572.3	245.4	9.7	1.000612
7000.00	35.4	-57.0		53.9	572.8			1.000012
7.0500.0	32.b	-55.6		52.5	573.2			1.000012
77009.9	31.9	-56.3		51.5	573.7			1.00001
77500.0	31.1	-52.9		6.64	2.470		•	1.00001
780011-0	30.4	-55.6		1.8.7	574.0			1.000011

STATION ALTITUDE 3989.CO PEET MSL 6 DEC- 79 1445 HRS MSF ASCENSION NO. 507

MANDATORY LEVELS 3400920507 WHITE SANLS

TABLE 8

GEODETIC COONDINATES 32.40043 LAT LEG 106.37033 LON DEG

PKESSURE	PKESSURE GEOPOTENTIAL	,		KEL.HUM.		À
MILLIBAYS	13 13 1-	AIR DEGREES	DEAPOINT CENTIGNAUE	PERCENT	DIRECTION DEGREES(TW)	SPEED
859.0	0 4765.	12.4	-10.5	19.	280.0	2.2
0.000	3 642n•	0.8	-12.2	22.	280.0	6.9
750.0	0 8152.	4.2	-14.3	24.	299.5	17.5
700.0	0 10003.	6.2	-14.5	21.	311.8	24.2
6-049		3.1	-16.8	22.	317.9	22.4
6609+3	3 14no7.	1.1	-19.5	, K.		21.0
550+0		5-4-	-27.5	14.	286∙8	22.5
500.0		-10.6	-31.5	16.	306.1	13.0
455.9	3 21422.	-17.2	-36.6	16.	342.9	13.3
400+0		-24.5	-42.4	17.	13.0	11.0
350•0		-33.1	₹64-	18.		15.1
300		-42.2		l		23.1
250.0	34848.	-53.7				33.5
2003		-56.2			17.5	42.5
175.0		-56.7				42.1
150.0		-60.0			9.6	36.7
125.1	_	-61.3				21.9
100.0		-64.7				9•0
90.08		-67.1				15.7
79•(-67.9				86.6
60.09		-65.8				9.3
20.03	~	-63.3			305.5	3.3
40.0		-61.4			192.2	10.4
30.0	0 77940.	-55.4				

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.